

Cassandra T. Eagle
Department of Chemistry
East Tennessee State University
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EDUCATION

Ph.D. The University of Toledo, Toledo, Ohio (December 1986)

Research Adviser: Julian A. Davies

Explored the electrochemical generation of low-valent, coordinatively unsaturated transition metal complexes and investigated their reactivity with small organic molecules. Developed expertise with standard instrumentation and vacuum line manipulations. Dissertation title: *The Reactivity of Electrochemically Generated Low Valent Platinum Complexes*.

B.Sc. (cum laude) Pfeiffer College, Misenheimer, NC (May 1984)

Adviser: Donald C. Jackman

Course work focused on analytical, inorganic, and organic chemistry.

Summer research included organic photochemistry and the synthesis of transition metal complexes at Davidson College and The University of Toledo, respectively.

EMPLOYMENT

East Tennessee State University, Johnson City, TN (August 2016 – present)

Professor of Chemistry

Current research projects include: Structural characterization by X-ray crystallography, Synthesis of bulky tetrakisacetamide dirhodium(II) complexes, Synthesis and characterization of nitrile adducts of tetrakisacetamide dirhodium(II) complexes.

East Tennessee State University, Johnson City, TN (July 2010 – 2016)

Chair and Professor of Chemistry

Research projects included: Structural characterization by X-ray crystallography, Synthesis of bulky tetrakisacetamide dirhodium(II) complexes, Synthesis and characterization of nitrile adducts of tetrakisacetamide dirhodium(II) complexes.

Appalachian State University, Boone, NC (July 2000 – July 2010)

Professor of Chemistry

Research projects included: Synthesis and catalytic properties of bulky tetrakisacetamide dirhodium(II) complexes, Solvothermal synthesis of crystalline III-V-VI nanostructures, Historical contributions of women to chemistry.

Appalachian State University, Boone, NC (July 1995 – June 2000)

Associate Professor of Chemistry

Appalachian State University, Boone, NC (July 1992 – June 1995)

Assistant Professor of Chemistry

Williams College, Williamstown, MA (July 1989 - June 1992)

Assistant Professor of Chemistry

Research projects included: The oxidative electrochemistry of tetrakisacetate dirhodium(II) complexes, The visible spectroscopy of tetrakisacetamide dirhodium(II) complexes and axial adducts.

Trinity University, San Antonio, TX (June 1988 - May 1989)

Camille and Henry Dreyfus Foundation Teaching and Research Fellow

Mentor: Michael P. Doyle

Research Project: The synthesis of new dirhodium catalysts designed for high stereo-, regio-, and enantioselectivity in carbenoid reactions

Texas A&M University, College Station, TX (Jan 1987 - May 1988)

Postdoctoral Research Fellow

Director: F. Albert Cotton

Research Project: Synthesis and structural analysis of new and geometrically interesting dirhodium complexes

TEACHING EXPERIENCE

East Tennessee State University (July 2010 – present)

Teaching Duties: General Chemistry Lecture and Laboratory; Advanced Inorganic Chemistry I; Multiple Bonds Between Metal Atoms; X-Ray Crystallography; Direction of Graduate and Undergraduate Research students.

Appalachian State University (July 1992 – June 2010)

Teaching duties: Graduate Inorganic Chemistry, Undergraduate Inorganic Chemistry, associated laboratory, Introductory Chemistry, and associated laboratories, Introduction to Chemical Research, Women and Minorities in Chemistry, Physics and Chemistry of Cooking, and the direction of research students.

Williams College (July 1989 - June 1992)

Teaching duties included: Inorganic Chemistry, its associated laboratory; Concepts in Chemistry, Advanced Section and its associated laboratory; Chemistry and Physics of Cooking; Issues in Science and Technology; laboratory sections of General Chemistry; and the research direction of independent and honors students.

Trinity University (June 1988 - May 1989)

Teaching duties included: Reactivity and Bonding in Inorganic Chemistry, Laboratory sections, and the research direction of two undergraduates and two high school teachers.

Clemson University (Summer 1996) Taught a series of X-ray Crystallography workshops with William Pennington to faculty at undergraduate institutions and to undergraduates. These workshops were designed to facilitate incorporation of X-ray Crystallography into the undergraduate curriculum.

HONORS AND AWARDS

Dean's List, Pfeiffer College; Who's Who Among American Colleges and Universities (1984); Sigma Xi Graduate Research Symposium Award (1986); Camille and Henry Dreyfus Foundation Teaching and Research Fellow (1988); ASU Faculty Advisor Award (1994 and 2001); University of Toledo Distinguished Alumni Lecturer (1995). College of Arts & Sciences Academy of Outstanding Teachers (1997); North Carolina Board of Governors Excellence in Teaching Award for Appalachian State University (2002). National Science Foundation Solid State Chemistry Summer Research Award (2005).

PUBLICATIONS

Yellow highlight = graduate student

Blue highlight = undergraduate student

Green highlight = high school student

Publications in Refereed Journals

1. Felix A. Carroll, Kevin R. Pressley and Cassandra T. Eagle, "Application of Heavy Atom Techniques to Study the Photolysis of But-2-enyl *p*-Methoxyphenyl Ether," *J. Chem. Res. (S)*, **1984**, 300.

2. Julian A. Davies, Cassandra T. Eagle, Deborah E. Otis and Uma Venkataraman, "Electrochemical Generation and Reactivity of Bis(triphenylphosphine)platinum(0): An Electrosynthesis of Platinum-Acetylene Complexes," *Organometallics*, **1986**, 5, 1264-1266.
3. Julian A. Davies and Cassandra T. Eagle, "Electrochemical Generation and Reactivity of Bis(triethylphosphine)platinum(0): Formation of a Platinum Hydride via a Hofmann Elimination Reaction with the Tetra(n-butyl)ammonium Cation," *Organometallics*, **1986**, 5, 2149-2151.
4. Julian A. Davies, Cassandra T. Eagle, A. Alan Pinkerton and Rashid Syed, "Carbonatobis(triethylphosphine)platinum(II)," *Acta Cryst.*, **1987**, C43, 1547-1549.
5. F. Albert Cotton, Kim R. Dunbar and Cassandra T. Eagle, "Reactions of $\text{Rh}_2(\text{O}_2\text{CCH}_3)_2(\text{C}_6\text{H}_4\text{PPh}_2)_2 \cdot 2\text{CH}_3\text{COOH}$ with Chlorotrimethylsilane in the Presence of Monodentate Phosphines to Give $[\text{Rh}_2\text{Cl}_2(\text{C}_6\text{H}_4\text{PPh}_2)_2(\text{PPh}_3)_2]$ and $[\text{Rh}_2\text{Cl}_2(\text{C}_6\text{H}_4\text{PPh}_2)_2(\text{PMe}_3)_2]$," *Inorg. Chem.*, **1987**, 26, 4127-4130.
6. F. Albert Cotton, Cassandra T. Eagle and Andrew C. Price, "Chemistry of $\text{Rh}_2(\text{CO})_2\text{Cl}_2(\text{dppm})_2$ and Compounds Derived Therefrom: Structural Characterization of $\text{Rh}_2(\text{CO})\text{Cl}_4(\text{dppm})_2$ and $[\text{Rh}_2(\text{CO})\text{Cl}_3(\text{dppm})_2\text{MeOH}][\text{PF}_6]$," *Inorg. Chem.*, **1988**, 27, 4362-4368.
7. Julian A. Davies, Cassandra T. Eagle, Deborah E. Otis and Uma Venkataraman, "Electrochemical Generation and Reactivity of Bis(tertiaryphosphine)platinum(0) Complexes: A Comparison of Reactivity of $[\text{Pt}(\text{PPh}_3)_2]$ and $[\text{Pt}(\text{PEt}_3)_2]$ Equivalents," *Organometallics*, **1989**, 8, 1080-1088.
8. F. Albert Cotton, Kim R. Dunbar, Cassandra T. Eagle, Larry R. Falvello, and Andrew C. Price, "Edge-Sharing Bioctahedral Molecules Without Metal-Metal Bonds: The d^6 - d^6 Complexes $\text{Rh}_2\text{X}_4(\mu\text{-X})_2(\mu\text{-dppm})_2$ ($\text{X} = \text{Cl}, \text{Br}$)," *Inorg. Chem.*, **1989**, 28, 1754-1757.
9. F. Albert Cotton, Rosa Llusar, and Cassandra T. Eagle, "Triangular Trinuclear Cluster Compounds: Molybdenum and Tungsten Complexes of the Type $[\text{M}_3\text{S}_4(\text{diphos})_3\text{X}_3]^+$ with $\text{X} = \text{Cl}$ and H ," *J. Am. Chem. Soc.*, **1989**, 111, 4332-4338.
10. Michael P. Doyle, Vahid Bagheri, Thomas J. Wandless, Nancy K. Harn, David A. Brinker, Cassandra T. Eagle and Kuo-Liang Loh, "Exceptionally High Trans(anti) Stereoselectivity in Catalytic Cyclopropanation Reactions," *J. Am. Chem. Soc.*, **1990**, 112, 1906-1912.
11. Michael P. Doyle, Bridget D. Brandes, Amy P. Kazala, Roland J. Pieters, Michael B. Jarstfer, Linette M. Watkins and C.T. Eagle, "Chiral Rhodium(II) Carboxamides. A New Class of Catalysts for Enantioselective Cyclopropanation Reactions," *Tetrahedron Lett.*, **1990**, 31, 6613-6616.
12. Cassandra T. Eagle and Frank Walmsley, "Preparation and Characterization of Two Nickel(II) Complexes: An Inorganic Chemistry Experiment," *J. Chem. Educ.*, **1991**, 68, 336-337.
13. F. Albert Cotton, Kim R. Dunbar, Cassandra T. Eagle, Larry R. Falvello, Scong-Joo Kang, Andrew C. Price and Mark G. Verbruggen, "Bis(diphenylphosphino)methane Complexes of Rhodium(III) Halides as Synthons for Dinuclear Rhodium(III) Complexes," *Inorganica Chimica Acta*, **1991**, 184, 35-42.
14. Grant N. Holder, Tonya A. Leach and Cassandra T. Eagle, "Kinetic and Electrochemical Study of Nitrile Adducts of Tetrachlorobis(1,2-bis(diphenylphosphine)methane)dirhenium(II)," *Transition Met. Chem.*, **1995**, 20, 409.

15. Madison Powell, Rosa D. Bailey, Cassandra T. Eagle, George L. Schimek, TW. Hanks and William T. Pennington, "Dicarbonyl(η^5 -cyclopentadienyl)(η^1 -pyrrolyl)iron(II)," *Acta Cryst.*, **1997**, C53, 1611-1613.
16. Andrew L. Sargent, Mark E. Rollog and Cassandra T. Eagle, "Electronic Structure of Axially Ligated Rhodium Carboxylates: Pi-Back-Bonding Revisited," *Theor. Chem. Acc.*; **1997**, 97, 283-288.
17. Cassandra T. Eagle, David G. Farrar, Carl U. Pfaff, Julian A. Davies, Constance Kluwe and Lee Miller, "Pi-Back-Bonding in Bis(isonitrile) Complexes of Rhodium(II) Acetate: Structural Analogs for Rhodium Carbenoids," *Organometallics*, **1998**, 17, 4523-4526.
18. P.A. Iyere, L.J. Kayren, A.W. Cordes, C.T. Eagle, T.A. Nile, G.L. Schmieck and W.T. Pennington, "Molecular and Supramolecular Structure of 4,4'-Bipyridinium Diiodide," *Crystal Engineering*, **1998**, 1, 159-167.
19. Gregory J. Grant, David F. Galas, Myron W. Jones, Kristi D. Loveday, William T. Pennington, George L. Schmieck, Cassandra T. Eagle and Donald G. VanDerveer, "Platinum Group Metal Complexes of Macrocyclic Oxa-thiaethers. The Crystal Structures of $18S_4O_2$, $[Pt(9S_2O)_2](PF_6)_2 \cdot 2CH_3NO_2$, $[Pt(18S_4O_2)](PF_6)_2$ and $[Pd(9S_2O)_2](PF_6)_2 \cdot 2CH_3CN$ " *Inorganic Chemistry*, **1998**, 30, 5299-5305.
20. Cassandra T. Eagle and Jennifer Sloan, "Marie Anne Paulze Lavoisier: The Mother of Modern Chemistry," *The Chemical Educator*, **1998**, 3(5), S1430-4171(98)05249-8.
21. James D. Batchelor, Everett E. Carpenter, Grant N. Holder, Cassandra T. Eagle, Jon Fielder, and Jared Cummings, "Recreation of Wohlnher's Synthesis of Urea: An Undergraduate Organic Laboratory Exercise," *The Chemical Educator*, **1998**, 3(6), S1430-4171(98)06271-X.
22. Cassandra T. Eagle, David G. Farrar, Grant N. Holder, David M. Gooden, Amanda B. Goodman, and Steve W. Wyatt, "Synthesis and Characterization of Tris(diethyldithiocarbamate) cobalt(III) as an Undergraduate Inorganic Laboratory," *The Chemical Educator*, **1999**, 4(3), 105-107.
23. Cassandra T. Eagle, David G. Farrar, Grant N. Holder, William T. Pennington and Rosa D. Bailey, "Structural and electronic properties of (2,2-*trans*)-dirhodium(II) tetrakis(N-phenylacetamidate)," *Journal of Organometallic Chemistry*, **2000**, 596, 90-94.
24. Julian A. Davies, Cassandra T. Eagle, David G. Farrar and Pannee Burckel, "Electrochemical synthesis and spectroscopic characterization of a mercury-platinum-hydride complex," *Inorganica Chimica Acta*, **2000**, 300-302, 645-652.
25. Gregory J. Grant, Myron W. Jones, Kristi D. Loveday, Donald G. VanDerveer, William T. Pennington, Cassandra T. Eagle and Larry F. Mehne, "Transition metal complexes with macrocyclic oxathiaethers," *Inorganica Chimica Acta*, **2000**, 300-302, 250-263.
26. Cassandra T. Eagle, Grant N. Holder, Amanda B. Goodman, Patrick E. Hicks and Katherine P. Shaber, "Synthesis of bis(diethyldithiocarbamate)manganese(II) and tris(diethyldithiocarbamate)manganese(III)," *The Chemical Educator*, **2001** 6(3), 153-156.
27. Cassandra T. Eagle and Jennifer Sloan, "Rachel Littler Bodley: A Charter Member of the American Chemical Society and Revolutionizer of Chemical and Medical Education for Women," *The Chemical Educator*, **2001**, 6 (3), 192-201.
28. Cassandra T. Eagle, Konstantinos Kavallieratos and Jeffery C. Bryan, "Non-preorganized neutral acyclic anion receptors: structural investigations of N,N'-diphenyl-1,3-benzenedisulfonamide and N,N'-bis(4-*t*-butylphenyl)-1,3-benzenedisulfonamide," *Journal of Chemical Crystallography*, **2002**, 32(7), 165-170.

29. Cassandra T. Eagle, David Farrar, Grant N. Holder, Michelle L. Hatley, Shirley L. Humphrey, Elizabeth V. Olson, Maria Quintos, Joseph Sadighi and Tom Wideman, “cis-Enhanced cyclopropanation catalysts: reaction chemistry of three isomers of $\text{Rh}_2[\text{N}(\text{C}_6\text{H}_5)\text{COCH}_3]_4$ ” *Tetrahedron Letters*, **2003**, 44(12), 2593 – 2595.
30. Cassandra T. Eagle, Britainy M. Dearman and Amanda B. Goodman, “Chemistry for Breakfast: Approaching Kinetics and Uncovering Everyday Chemistry by Cooking Eggs” *Chem. Educator*, **2003**, 8(2), 122-124.
31. Jeffrey C. Bryan, Benjamin P. Hay, Richard A. Sachleben, Cassandra T. Eagle, Cungen Zhang and Peter V. Bonnesen, “Design, synthesis, and structure of novel cesium receptors” *J. Chem. Crystallogr.* **2003**, 33 (5/6), 349-355.
32. Gregory A. Becht, John T. Vaughey, Robin L. Britt, Cassandra T. Eagle and Shiou-Jyh Hwu, “Ion exchange and electrochemical evaluation of the microporous phosphate $\text{Li}_9\text{Fe}_7(\text{PO}_4)_{10}$ ” *Materials Research Bulletin*, **2008**, 43(12), 3389-3396. DOI:10.1016/j.materresbull.2008.02.05.
33. Cassandra T. Eagle, Kenneth K. Kpogo, Landon C. Zink, and Albert E. Smith, “Tetrakis[μ -N-(2,4,6-trimethylphenyl)acetamidato]- $\kappa^4\text{N}:\text{O}; \kappa^4\text{O}:\text{N}$ -bis[(benzotrile- κN)rhodium(II)](Rh-Rh)” *Acta Cryst. Section E: Structure Reports Online*, **2012**, E68(7), m877.
34. Cassandra T. Eagle, Fredricka Quarshie, Megan E. Ketron and Nkongho Atem-Tambe “cis-Tetrakis(μ -N-phenylacetamidato) $\kappa^4\text{N}:\text{O}; \kappa^4\text{O}:\text{N}$ -bis([benzotrile- κN)rhodium(II)](Rh-Rh)” *Acta Cryst. Section E: Structure Reports Online*, **2013**, E69(9), m329.
35. Cassandra T. Eagle, Nkongho Atem-Tambe, Kenneth, K. Kpogo and Jennie Tan, Fredricka Quarshie. (3-Methylbenzotrile- κN)tetrakis(μ -N-phenylacetamidato)- $\kappa^4\text{N}:\text{O}; \kappa^4\text{O}:\text{N}$ -dirhodium(II)(Rh-Rh), *Acta Cryst. Section E: Structure Reports Online*, **2013**, E69(12), m639.
36. Cassandra T. Eagle, Fredricka Quarshie and Kevin M. Cook, “(3-methylbenzotrile-1 κN)-cis-tetrakis(μ -N-phenylacetamidato)-1,2 $\kappa^4\text{N}:\text{O}; 1,2\kappa^4\text{O}:\text{N}$ -dirhodium(II)(Rh—Rh),” *Acta Cryst. Section E: Structure Reports Online*, **2014**, 70(8), m304.
37. Cassandra T. Eagle, Nkongho Atem-Tambe, Kenneth K. Kpogo, Jennie Tan and Kevin M. Cook, “Crystal structure of tetrakis(μ -N-phenylacetamidato)- $\kappa^4\text{N}:\text{O}; \kappa^4\text{O}:\text{N}$ -bis[(2-methylbenzotrile- κN)dirhodium(II)] (Rh—Rh),” *Acta Cryst.*, Section E: Structure Reports Online, **2014**, 70(9), m333-4.
38. Satabdi Roy, Saswati, Sudhir Lima, Sarita Dhaka, Mannar R. Maura, Rama Acharyya, Cassandra Eagle and Rupam Dinda, “Synthesis, structural studies and catalytic activity of a series of dioxidomolybdenum(VI)-thiosemicarbazone complexes,” *Inorg. Chim. Acta* **2018**, 134-143.
39. Alain M. Beuparlant, Cassandra T. Eagle, Reza Mohseni and Colin D. McMillen, “Teaching Single Crystal X-Ray Crystallography in the Undergraduate Classroom with Sugar and Epsom Salt.” *J. Chem. Educ.* **2023**, 100 (Copyright © 2025 American Chemical Society (ACS). All Rights Reserved.), 336–341. <https://doi.org/10.1021/acs.jchemed.2c00795>.

Chapters and Books

1. Eagle, C.T. *The Reactivity of Electrochemically Generated Low Valent Platinum Complexes*. University of Toledo, **1986**.

2. Davies, J.A.; Eagle, C.T. "Recent advances in the chemistry of platinum group carbonyls in catalysis." *Chemistry of The Platinum Group Metals: Recent Advances*, Hartley, F.R., Ed.; Elsevier: Amsterdam, **1991**.
3. Davies, J.A.; Chen, L.; Eagle, C.T.; Staples, R.J. "Electrochemistry of Platinum Phosphine Complexes: C-H and C-X Activation by Highly Reactive Intermediates." *Molecular Electrochemistry of Inorganic, Bioinorganic and Organometallic Compounds*, Pombeiro, A.J.L.; McCleverty, J.A., Eds.; Kluwer Academic Publishers, Boston, **1993**.
4. Eagle, C. T.; Farrar, D. G. *Student Solutions Manual: Chemistry, Principles and Reactions*. Harcourt, Brace & Co., Fort Worth, **1997**.
5. Eagle, C.T.; Farrar, D.G. *Student Solutions Manual to Accompany Chemistry: Principles and Reactions, 4rd Ed.* Saunders College Publishing, Philadelphia, **2002**.
6. Eagle, C. T. *Student Solutions Manual for Masterton and Hurley's Chemistry Principles and Reactions 5th Ed.*; Brooks/Cole-Thomson Learning: California, 2004.

PRESENTATIONS

Papers Presented At Professional Meetings

1. C.T. Eagle, K.R. Pressley, C.K. Nunn, and F.A. Carroll, "Application of Heavy Atom Techniques to Study the Photolysis of But-2-enyl *p*-Methoxyphenyl Ether," 35th Southeast Regional Meeting, American Chemical Society, Charlotte, North Carolina, 1983. Abstr.: 565.
2. C.T. Eagle, "The Reactivity of Electrochemically Generated Low Valent Platinum Complexes," 6th Annual Sigma Xi Graduate Research Symposium, Toledo, Ohio, 1985.
3. C.T. Eagle, J.A. Davies, and V. Uma, "The Electrosynthesis of Homogeneous Catalysts," 94th Annual Meeting, Ohio Academy of Science, Cincinnati, Ohio, 1985. Abstr.: *Ohio J. Sci.*, **1985**, 85, 51.
4. J.A. Davies, C.T. Eagle, D.E. Otis, and V. Uma, "Electrochemical Generation and Reactivity of Bis(phosphine)platinum(0) Complexes," 191st National Meeting, American Chemical Society, New York, New York, 1986. INOR-335.
5. C.T. Eagle and J.A. Davies, "Electrosynthesis of Bis(phosphine)platinum(0) Complexes and Reactivity with Organic Substrates," 95th Annual Meeting, Ohio Academy of Science, Cincinnati, Ohio, 1986. Abstr.: *Ohio J.Sci.*, **1986**, 86, 22.
6. C.T. Eagle and J.A. Davies, "Acid/Base Chemistry of Electrochemically Generated Bis(triethylphosphine)platinum(0)," 18th Central Regional Meeting, American Chemical Society, Bowling Green, Ohio, 1986. Abstr.: 151.
7. C.T. Eagle, "The Potential of Electrochemistry in the Activation of Small Organic Molecules," 7th Annual Sigma Xi Graduate Research Symposium, Toledo, Ohio, 1986.
8. C.T. Eagle and J.A. Davies, "Reactions of Electrochemically Generated [Pt(PEt₃)₂]," 193rd National Meeting, American Chemical Society, Denver, Colorado, 1987. INOR-436.
9. C.T. Eagle, F.A. Cotton, and K.R. Dunbar, "Reactions of an Ortho-Metalated Dirhodium Compound with Phosphine Ligands," 194th National Meeting, American Chemical Society, New Orleans, Louisiana, 1987. INOR-363.
10. C.T. Eagle, B.D. Brandes, M.B. Jarstfer, A.P. Kazala, and M.P. Doyle, "Synthesis of Dirhodium

tetrakis(carboxamide) Compounds and Their Catalytic Uses for Carbenoid Transformations," 197th National Meeting, American Chemical Society, Dallas, Texas, 1989. INOR-371.

11. **L.J. Havrilesky** and C.T. Eagle, "Electrochemical Investigations of Dirhodium Tetrakis(acetate)," 4th Organometallic Summer Undergraduate Group Meeting (OSURG; funded by New England Consortium for Undergraduate Science Education; funded by Pew Charitable Trusts), College of the Holy Cross, Worcester, Massachusetts, 1989.

12. **L.J. Havrilesky** and C.T. Eagle, "The First Synthetically Meaningful Preparation of $[\text{Rh}_2(\text{O}_2\text{C}\{\text{CH}_2\}_6\text{CH}_3)_4]^+$," 4th National Conference on Undergraduate Education, Union College, Schenectady, New York, 1990. CHM-111.

13. **A.J. Mazdzer** and C.T. Eagle, "Redox Chemistry with Dirhodium Tetrakis(acetate)," 5th OSURG Meeting, Williams College, Williamstown, Massachusetts, 1990.

14. **M.T. Quintos** and C.T. Eagle, "Electrochemical Investigations of a Variety of Dirhodium(II) Complexes," 5th OSURG Meeting, Williams College, Williamstown, Massachusetts, 1990.

15. **T.W. Wideman** and C.T. Eagle, "Investigations of the Catalytic Properties of a Variety of Dirhodium Complexes," 5th OSURG Meeting, Williams College, Williamstown, Massachusetts, 1990.

16. **T.W. Wideman** and C.T. Eagle, "The Exploration of Various $[\text{Rh}_2\text{L}_4]$ Complexes as Catalysts for Carbene Chemistry," 6th OSURG Meeting, Yale University, New Haven, Connecticut, 1990.

17. **J.N. Cumming** and C.T. Eagle, " $[\text{Rh}_2(\text{NPhCOCH}_3)_4]$ as a Catalyst for Carbenoid Cyclopropanations," 7th OSURG Meeting, College of The Holy Cross, Worcester, Massachusetts, 1991.

18. **S.L. Humphrey** and C.T. Eagle, "The Synthesis of Tetrakis(N-pentafluorophenylacetamide) Dirhodium(II)," 8th OSURG Meeting, Dartmouth College, Hanover, New Hampshire, 1991.

19. **J.N. Cumming** and C.T. Eagle, "A Remarkable Carbene Catalyst which Enhances the Formation of Cis Cyclopropanes," 8th OSURG Meeting, Dartmouth College, Hanover, New Hampshire, 1991.

20. C.T. Eagle and R. Chang, "Practical Applications of Chemistry: Inorganic Chemistry in an Egg," NECUSE Workshop: Innovative Methods in Teaching Chemistry, College of The Holy Cross, Worcester, Massachusetts, 1991.

21. **S.L. Humphrey** and C.T. Eagle, "Cyclopropanation of Ethyldiazoacetate and Various Alkenes Catalyzed by Rhodium(II) Pentafluorophenylacetamide," American Chemical Society, Eastern New York Section Undergraduate Research Symposium, Siena College, Loudonville, New York, 1992.

22. **S.L. Humphrey** and C.T. Eagle, " $[\text{Rh}_2(\text{N}\{\text{C}_6\text{F}_5\}\text{COCH}_3)_4]$ Mediated Conversion of Ethyldiazoacetate and Alkenes into Cyclopropanes," 9th OSURG Meeting, Williams College, Williamstown, Massachusetts, 1992.

23. **E.V. Olson** and C.T. Eagle, "Preliminary Cyclic Voltammetry and Visible Spectroscopic Investigations of $[\text{Rh}_2(\text{N}\{\text{C}_6\text{F}_5\}\text{COCH}_3)_4]$," 9th OSURG Meeting, Williams College, Williamstown, Massachusetts, 1992.

24. **M. L. Hatley**; **E. V. Olson** and C. T. Eagle "The Reaction of Small Substrate Molecules with Tetrakis(carboxamide) Dirhodium(II)," Seizing Opportunities for Advancing Research Scholars (SOARS), North Carolina Central University, Durham, North Carolina, 1992. Abstr.: IVA-13

25. C. T. Eagle, S. L. Humphrey, M. T. Quintos, "Selectivity of the Catalysts $[\text{Rh}_2(\text{NRCOCH}_3)_4]$ ($\text{R} = \text{Ph}, \text{C}_6\text{F}_5$) in Cyclopropanation Reactions," 45th Southeast Regional Meeting, American Chemical Society, Johnson City, Tennessee, October 19, 1993. Abstr.: 162.
26. C. T. Eagle, J. D. Batchelor, and E. E. Carpenter, "An Inorganic Chemistry Experiment: The Synthesis of Urea," Seizing Opportunities for Advancing Research Scholars (SOARS), Winston-Salem State University, Winston-Salem, North Carolina, November 12, 1993. Abstr.: III-E-1.
27. C. T. Eagle, M. L. Hatley, E. V. Olson, S. L. Humphrey, and G. N. Holder, "Reactivity of $[\text{Rh}_2(\text{NRCOCH}_3)_4]$ Complexes ($\text{R} = \text{C}_6\text{H}_5, \text{C}_6\text{F}_5$) with Nitriles; the Dependence of Formation Constants on Steric and Electronic Effects," 207th National Meeting, American Chemical Society, San Diego, California, March 15, 1994. Abstr.: INOR 241.
28. C. T. Eagle, and E. E. McClain "Historical Contributions of Women and Minorities to Chemistry," 14th Annual Undergraduate Research Symposium, Virginia Polytechnic Institute, Blacksburg, Virginia, March 25, 1994. Abstr.: P1.
29. C.T. Eagle, J.A. Davies, and D.G. Farrar, "The Characterization of $[\text{Pt}(\text{H})(\text{PEt}_3)_2]_2\text{Hg}$ Using Multinuclear Magnetic Resonance Methods," 209th National Meeting, American Chemical Society, Anaheim, CA, April, 1995, Inorganic Division. Abstr.: INOR 490.
30. C.T. Eagle and E.E. McClain, "Incorporating the Historical Contributions of Women and Minorities into Introductory Chemistry," 209th National Meeting, American Chemical Society, Anaheim, CA, April, 1995, Chemical Education Division. Abstr.: CHED 445.
31. C.U. Pfaff, D.G. Farrar, and C.T. Eagle, "Evidence for π -Backbonding in Rhodium Carbenoid Analogs," 1995 Student Meeting in Miniature, Greenville, NC, November, 1995. Abstr.: p15.
32. J. Sloan and C.T. Eagle, "Marie Anne Paulze Lavoisier: A Woman's Contribution to Chemistry," 28th Annual ACS Student Affiliates Southeastern Regional Undergraduate Research Conference, March 21, 1997. ABSTR:1.
33. J. Sloan and C.T. Eagle, "An Unknown Contributor to the Foundations of Modern Chemistry: Marie Anne Paulze Lavoisier," 49th Southeastern Regional Meeting of the American Chemical Society, Roanoke, VA, Oct. 21, 1997. CHED: 060
34. J.H. Sloan and C.T. Eagle, "Rachel Little Bodley: A Charter Member of the American Chemical Society," 50th Southeastern Regional Meeting of the American Chemical Society, Research Triangle Park, NC, Nov, 1998. Paper: 132.
35. D.M. Gooden, C.T. Eagle and G.N. Holder, "The Synthesis and Characterization of Tris(diethyldithiocarbamato)cobalt(III)," 50th Southeastern Regional Meeting of the American Chemical Society, Research Triangle Park, NC. Nov, 1998. Paper: 160.
36. P.E. Hicks, C.T. Eagle, and D.G. Farrar, "Nitriles and Isonitriles as Probes for π -Backbonding in Rhodium(II) Carboxylates," 19th Annual Undergraduate Research Symposium, Blacksburg, VA, March 20, 1999. P9.
37. A.B. Goodman and C.T. Eagle, "The Synthesis and Characterization of Tris(diethyldithiocarbamato)cobalt(III): An Inorganic Chemistry Experiment," 19th Annual Undergraduate Research Symposium, Blacksburg, VA. March 20, 1999. P8.

38. C.T. Eagle and M.M. Maxson, "The Synthesis, Purification and Characterization of Tetrakis(NPhenyltrifluoromethylacetamido) dirhodium(II)," 19th Annual Undergraduate Research Symposium, Blacksburg, VA. March 20, 1999. O15.
39. C.T. Eagle and M.M. Maxson, "Synthesis, Purification and Characterization of Tetrakis(NPhenyltrifluoroacetamido) Dirhodium(II)," 218th National Meeting, American Chemical Society, New Orleans, LA, Aug. 1999, Inorganic Division. Abstr.: INOR 23.
40. C.T. Eagle, D.G. Farrar, G.N. Holder, M.L. Hatley, E.V. Olson, S.L. Humphrey, M.T. Quintos, J. Sadighi, and T. Wideman, "Reaction Chemistry of Three Isomers of $[\text{Rh}_2(\text{N}\{\text{C}_6\text{H}_5\}\text{COCH}_3)_4]$," 218th National Meeting, American Chemical Society, New Orleans, LA, Aug. 1999, Inorganic Division. Abstr.: INOR 24.
41. D.G. Farrar, C.T. Eagle, C.U. Pfaff, A.L. Sargent, E.G. Jones, W.T. Pennington, and R.D. Bailey, "Theoretical, Structural and Spectroscopic Evidence for π -Backbonding in Rhodium(II) Carboxylates," 218th National Meeting, American Chemical Society, New Orleans, LA, Aug. 1999, Inorganic Division. Abstr.: INOR 364.
42. D.G. Farrar, C.T. Eagle, and G.N. Holder, "Incorporation of FT-NMR in the Undergraduate Curriculum," 218th National Meeting, American Chemical Society, New Orleans, LA, Aug. 1999, Chemical Education Division. Abstr.: CHED 321.
43. C.T. Eagle and M.M. Maxson "Synthesis, Purification and Characterization of Tetrakis(NPhenyltrifluoroacetamido) Dirhodium(II)," 218th National Meeting, American Chemical Society, New Orleans, LA, Aug. 1999, Inorganic Division. Abstr.: INOR 23.
44. C. T. Eagle, D. G. Farrar and P. E. Hicks, "NMR Spectroscopy as a Probe to Study the π -Backbonding Ability of Tetrakis(acetato)Dirhodium(II)," 51st Southeast Regional Meeting of the American Chemical Society, Knoxville, TN, Oct. 1999, Inorganic Division. Abstr.: 296.
45. C. T. Eagle, "Integrated Independent Inorganic Laboratory Projects," 51st Southeast Regional Meeting of the American Chemical Society, Knoxville, TN, Oct. 1999, Chemical Education Division. Abstr.: 205.
46. C. T. Eagle, A. B. Goodman, G. N. Holder, P. E. Hicks, and K. P. Shaber, "Novel laboratory experiment utilizing inert atmosphere techniques: The synthesis of bis(diethyldithiocarbamate)manganese(II)," 220th National Meeting of the American Chemical Society, Washington, D.C., August 20-24, 2000. Paper CHED 354.
47. C. T. Eagle, "Gertrude Elion: Passing the torch," The Gertrude Elion Symposium at the 220th National Meeting of the American Chemical Society, Washington, D.C., August 20-24, 2000. Paper WCC3.
48. C. T. Eagle and J. H. Sloan, "Rachel Littler Bodley: Revolutionizer of medical education for women and mother of the American Chemical Society," The Symposium on Historically Important Chemical Educators at the 220th National Meeting of the American Chemical Society, Washington, D.C., August 20-24, 2000. Paper CHED 20.
49. M. Zrull, R. Williams, R. Wachs, C.T. Eagle, C. Ostwalt, G. Durden, J. Domer, and G. Blimling, "Student Development Undergraduate Research Scholarships: Supporting Collaborative Projects at Appalachian State University," 14th National Conference on Undergraduate Research, Missoula, MT, April 2000.
50. C. T. Eagle and M. G. Werts. "A Novel Technique for Enhancing Performance in Introductory Chemistry," 52nd Southeast/56th Southwest Combined Regional Meeting of the American Chemical Society, December 6-8, 2000. Abstr.: 157.

51. **K. P. Shaber** and C. T. Eagle, "The Long and Winding Road to a New Catalyst," 3rd Annual Celebration of Research and Other Creative Activity, Appalachian State University, Boone, NC, April 10, 2001.
52. **F. Williams** and C. T. Eagle "Bis(diethyldithiocarbamate) Nickel (II) and Bis(ethylxanthate Nickel (II)," 3rd Annual Celebration of Research and Other Creative Activity, Appalachian State University, Boone, NC, April 10, 2001.
53. **K. P. Shaber** and C. T. Eagle, "The Synthesis and Characterization of Tetrakis(Nphenyltrifluoroacetamide) Dirhodium(II)," Meeting in Miniature, Wake Forest University, Winston-Salem, April 21, 2001.
54. **F. Williams** and C. T. Eagle, "The Synthesis and Characterization of Metal Bisdiethyldithio Carbamates," Meeting in Miniature, Wake Forest University, Winston-Salem, April 21, 2001.
55. C. T. Eagle, "Diethyldithiocarbamate: A Ligand for All Levels of Experience," 53rd Southeast Regional Meeting of the American Chemical Society, September 23-26, 2001. Abstr: 263.
56. C. T. Eagle, J. C. Bryan, and K. Kavallieratos, "Structural Investigations of N,N'Bis(diphenyl)-1,3-Benzenedisulfonamide," 53rd Southeast Regional Meeting of the American Chemical Society, September 23-26, 2001. Abstr: 473.
57. **B. M. Dearman** and C. T. Eagle, "Chemistry for Breakfast: Approaching Kinetics and Uncovering Everyday Chemistry by Cooking Eggs," 5th Annual Celebration of Research and Creative Endeavors, April 22-23, 2002. Abstr: p17.
58. C. T. Eagle and M. G. Werts, "Student Comprehension of Quantum Numbers" 54th Southeast Regional Meeting of the American Chemical Society, November 13-16, 2002. Abstr: 333.
59. **B. M. Dearman**, **A. B. Goodman**, and C. T. Eagle, "Chemistry for Breakfast: Approaching Kinetics and Uncovering Everyday Chemistry by Cooking Eggs" 54th Southeast Regional Meeting of the American Chemical Society, November 13-16, 2002. Abstr: 476.
60. C. T. Eagle and T. C. Rhyne, "Development of an On-Line Chemical Communication Skills Course." 56th Southeast Regional Meeting of the American Chemical Society, Research Triangle Park, NC, Nov. 10-13, 2004. Abstr: GEN-072.
61. C. T. Eagle, "Preparing students for industry: Researching the literature and presenting a chemistry seminar" 230th ACS National Meeting, Washington, D.C., Aug. 28-Sept.1, 2005. Abstr: CHED-020.
62. G. Becht, **R. L. Britt**, C. Eagle, J. Vaughey, S.-J. Hwu, "A Li-Ion Exchanged Open-Framework Fe[III] Phosphate, $\text{Li}_9\text{Fe}_7(\text{PO}_4)_{10}$ Showing Improved Capacity as An Anode" 59th Southeast Regional Meeting of the American Chemical Society, Greenville, SC, October 24-27, 2007, Abstr: GEN-634.
64. C. T. Eagle, **N. Atem-Tambe**, "Tetrakis 3,1-(N-phenylacetamide) dirhodium(II) adduct with 1,3-dicyanobenzene: Structural Properties" 64th Southeast Regional Meeting of the American Chemical Society, Raleigh, NC, November 14-17, 2012, Abstr: SERM-456.
65. **F. Quarshie**, C. T. Eagle, **K.K. Kpogo**, "Single Crystal X-ray Structure of $\text{Ba}_{1.5}[\text{Fe}(\text{C}_{10}\text{H}_{13}\text{N}_2\text{O}_7)][\text{Co}(\text{CN})_6]\cdot 9\text{H}_2\text{O}$ " 64th Southeast Regional Meeting of the American Chemical Society, Raleigh, NC, November 14-17, 2012, Abstr: SERM-457.
66. **M. E. Ketron**, C. T. Eagle, **F. Quarshie**, **N. Atem-Tambe**, "Single Crystal X-ray Structure of 2,2-cis- $[\text{Rh}_2(\text{N}\{\text{C}_6\text{H}_5\}\text{COCH}_3)_4]\cdot 2\text{NCC}_6\text{H}_4$ " 64th Southeast Regional Meeting of the American Chemical Society, Raleigh, NC, November 14-17, 2012, Abstr: SERM-1163.

67. **N. Atem-Tambe**, C. T. Eagle “Structural properties of a 3,1-Rhodium N-Phenylacetamide adduct with 1,3-Dicyanobenzene” Appalachian Student Research Forum, Johnson City, TN, April 5, 2012.
68. **K. K. Kpogo**, C. T. Eagle, “Synthesis, characterization and crystal structure of bis(benzonitrile)-2,2-*trans*-tetrakis[μ -(N-{2,4,6-trimethylphenyl}acetamido)- κ N:O)]-dirhodium”, Appalachian Student Research Forum, Johnson City, TN, April 5, 2012.
69. **M. E. Ketron**, C. T. Eagle “Understanding Catalysts that make low Toxicity Insecticides” Boland Undergraduate Research Symposium, Millennium Center, Johnson City, TN, April 2, 2013.
70. **F. F. Quarshie**, **K. K. Kpogo**, C. Eagle, J. Wardeska “Characterization of an Iron-Cobalt Dimer with Potential for Waste Water Cleanup” Appalachian Student Research Forum, Millennium Center, Johnson City, TN, April 4, 2013.
71. **N. Atem-Tambe**, C. Eagle, **J. Tan** “Solid state comparison of $[\text{Rh}_2(\text{PhNCOCH}_3)_4]\cdot\text{NCR}$ with $[\text{Rh}_2(\text{PhNCOCH}_3)_4]\cdot 2\text{NCR}$ by X-Ray Crystallography” Appalachian Student Research Forum, Millennium Center, Johnson City, TN, April 4, 2013.
72. **J. Lowe**, C. Eagle, “Structural Determination of a New Molybdenum Chelating Complex, $[\text{MoSFO}_5\text{N}_3\text{C}_{13}\text{H}_{13}]$ ”, Boland Undergraduate Research Symposium, Johnson City, TN, April 1, 2014.
73. **V. Norwood**, C. Eagle, “Introduction of Natural Oils into Rubber Compound”, Boland Undergraduate Research Symposium, Johnson City, TN, April 1, 2014.
74. **C. Harris**, C. Eagle, **J. Jordan**, “Synthesis and Characterization Imidazole Modified Tetrakis (N-Phenylacetamidato) Dirhodium(II) Catalysts”, Appalachian Student Research Forum, Johnson City, TN, April 2-3, 2014.
75. **J. W. Jordan**, **N. Atem-Tambe**, C. T. Eagle, “Structural Analysis of 1,4-Dicyanobenzene Attached to the Axial Sites of 2,2-*cis* Tetrakisphenylacetamide Dirhodium(II)”, Appalachian Student Research Forum, Johnson City, TN, April 2-3, 2014.

Other Scientific Presentations

1. "Rhodium Complexes and Controlled Carbene Kissing," Bronfman Bag Lunch Talk, Williams College, Williamstown, Massachusetts, 1990.
2. "How to Make Carbenes Kiss Cis," Summer Science Research Talk, Williams College, Williamstown, Massachusetts, 1991.
3. "Chemistry, The Breakfast of Champions," Pfeiffer College, Misenheimer, North Carolina, 1992.
4. "Life After ASU - What's a Chemist to Do?" Seminar, Appalachian Chemical Society, Boone, North Carolina, November 16, 1993.
5. "Women in Chemistry, From Alchemy to the Nobel Prize," Sigma Xi Lecture, Appalachian State University, February, 1996.
6. "Historical Contributions of Women to Chemistry," Interdisciplinary Studies Lunch Forum, Appalachian State University, Boone, NC, March 19, 1996.

7. "Women in Chemistry, From Alchemy to the Nobel Prize," Women Studies, Appalachian State University, March, 1996.
8. "Chemistry, the Breakfast of Champions," Presented at Watauga High School (Louise Taylor's Physiology Class), Mar. 23, 1996 and Oct. 31, 1996.
9. "Jane Marcet and Conversations on Chemistry" (with Claire Olander), Presented at the ASU Women in Science Seminar for the Watauga Girl Scouts, Apr 15 and 22, 1996.
10. "Chemistry, the Breakfast of Champions," Presented at Pfeiffer University through the Pfeiffer University Honors Seminar Program, Misenheimer, NC, Sept. 16, 1996.
11. "Chemistry vs. Creationism: Conflict or Collaboration?" Presented at ASU Wesley Foundation, Sept. 18, 1996.
12. "Life and Work of Gertrude Elion," Presented at American Women's Studies Class at Caldwell Community College and Technical Institute, Watauga Campus, Oct 29, 1996.
13. "Women in Chemistry, From Alchemy to the Nobel Prize," Presented at Governor's School for Science and Mathematics, Hartsville, SC, Feb. 20, 1997.
14. "Chemistry, the Breakfast of Champions," Presented at Watauga High School (Susan Green's Chemistry Class), Mar. 7, 1997.
15. "Women in Chemistry, From Alchemy to the Nobel Prize," Presented at St. Francis College, Loretto, PA. March 17, 1997.
16. "Women in Chemistry," Women's Studies Diversity Series April 17, 1997.
17. "Women in Chemistry, From Alchemy to the Nobel Prize," Presented at Clemson University, Clemson, SC for their Summer Undergraduate Research Program, June 20, 1997.
18. "Creationism and Christianity, Conflict or Collaboration?" Presented at the local Sigma Xi meeting, Appalachian State University, 1997.
19. "Women in Chemistry, From Alchemy to the Nobel Prize," Presented at Virginia Military Institute Oct. 8, 1997.
20. "Gertrude Elion: Her Life and Work," Presented at Caldwell Community College, March 5, 1998 and Nov. 3, 1997.
21. "Jacques Louis David's Portrait of Marie Anne Paulze Lavoisier and Antoine Laurent Lavoisier; 19th Century Women, Chemistry, Art, and the French Revolution," Interdisciplinary Panel Discussion, 11th Annual Undergraduate Research Symposium, Truman State University, Kirksville, MO, March 19, 1998.
22. "Chemistry, the Breakfast of Champions," Louisburg Junior College, Louisburg, NC, April 22, 1998.
23. "From Alchemy to the Nobel Prize; Historical Contributions of Women to Chemistry," Presented at Clemson University, Clemson, SC for their Summer Undergraduate Research Program, June 26, 1998.
24. "Gertrude Elion: Her Life and Work," Presented at Caldwell Community College, Oct 5, 1998 and Feb 16, 1999.

25. "Women in Science: Beginning or Enhancing your Program," a part of the Glaxo Wellcome Women In Science Spring Conference, at Glaxo Wellcome, April 19, 1999.
26. "Chemistry Careers and Children: Conflict or Collaboration," Presented at the 53rd Annual Meeting of Western North Carolina Public Health Association, Nurses Section in Greensboro, NC, May 20, 1999.
27. "From Alchemy to the Nobel Prize; Historical Contributions of Women to Chemistry," Presented at Clemson University, Clemson, SC for their Summer Undergraduate Research Program, July 23, 1999.
28. "The Biochemistry of Breastmilk," Presented to the Public Health Department, Boone, NC, November 4, 1999.
29. "Women in Science: Life at home and at work," Invited Brown Bag Luncheon Speaker for the Appalachian State University's Women's Center, October 25, 2000.
30. "A Career in Chemistry and a Child: Conflict or Collaboration?" Glaxo Wellcome Women in Science Scholars Regional Meeting, Appalachian State University, Boone, NC, November 17, 2000.
31. "SURP (Some Unbelievably Real People): Percy Julian and Gertrude Elion," Presented to the Department of Chemistry, Clemson University, Clemson, SC, July 20, 2000.
32. "Chemistry, Careers and Children. Can You Have it All?" Invited Brown Bag Luncheon Speaker for the Appalachian State University's Women's Center, April 11, 2000.
33. "Chemistry Can Be Fun," Presented to Watauga County High School Science Classes, Boone, NC, October 16, 2001.
34. C. T. Eagle, "Food Allergies and Sensitivities," Presented to the WIC Program of Watauga County, August 27th 2002.
35. C. T. Eagle "The Art and Craft of Teaching Chemistry," Presented at "In Celebration" program sponsored by the Hubbard Center, Appalachian State University, January 31, 2003.

Invited Lectures

1. C.T. Eagle, "Electrochemistry: A New Method to Generate Reactive Transition Metal Intermediates," The University of North Carolina at Charlotte, Charlotte, North Carolina, 1985.
2. C.T. Eagle, "Carbenoid Reactions Using Rh₂(RNCOR)₄ as Catalysts," The University of Texas at San Antonio, San Antonio, Texas, 1988.
3. C.T. Eagle, "Carbene Transformations Mediated by Rh₂(OAc)₄," Carthage College, Kenosha, Wisconsin, 1989.
4. C.T. Eagle, "Novel Dirhodium Compounds: Studies Toward the Synthesis of Rh₂Cl₆(dppm)₂," The University of Texas at El Paso, El Paso, Texas, 1989.
5. C.T. Eagle, "Carbenoid Reactions Employing Rhodium(II) Complexes as Catalysts," Cornell College, Mount Vernon, Iowa, 1989.
6. C.T. Eagle, "Novel Dirhodium Compounds: Studies Toward the Synthesis of Rh₂Cl₆(dppm)₂," Williams College, Williamstown, Massachusetts, 1989.
7. C.T. Eagle, "Novel Dirhodium Compounds: Studies Toward the Synthesis of Rh₂Cl₆(dppm)₂," Trinity

University, San Antonio, Texas, 1989.

8. C.T. Eagle, "The Rational Design of Rhodium(II) Catalysts for the Synthesis of Pyrethroid Insecticides: Making a Cheap Bug Spray," Appalachian State University, Boone, NC, 1992.

9. C.T. Eagle, "The Use of Dirhodium Tetrakis-carboxamides as Catalysts for the Selective Synthesis of Cis Cyclopropanes: How to Kill Fleas without Killing Your Dog," Siena College, Loudonville, New York, 1992.

10. C.T. Eagle, "The Use of Dirhodium Tetrakis-carboxamides as Catalysts for the Selective Synthesis of Cis Cyclopropanes: How to Kill Fleas without Killing Your Dog,," Smith College, Northampton, Massachusetts, 1992.

11. C. T. Eagle, "The Use of Dirhodium Tetrakis-carboxamides as Catalysts for the Selective Synthesis of Cis Cyclopropanes: How to Kill Fleas without Killing Your Dog," Catawba College, Salisbury, North Carolina, October 8, 1993.

12. C.T. Eagle, "The Selective Synthesis of *cis*-Cyclopropanes: How to Kill Fleas Without Killing Your Dog," Davidson College, Davidson, NC, September, 1994.

13. C.T. Eagle, "The Synthesis and Characterization of $[\text{Pt}(\text{H})(\text{PEt}_3)_2]_2\text{Hg}$ Using Multinuclear Magnetic Resonance Methods and NMR Simulations," East Tennessee State University, Johnson City, TN, November, 1994.

14. C. T. Eagle, "Reactivity of Dirhodium Tetrakis-Carboxamides and Studies to Predict Catalytic Activity", University of Maryland, College Park, Maryland, April 26, 1995.

15. C. T. Eagle, "Studies to Predict the Catalytic Properties of Tetrakis(carboxamide)dirhodium(II) Compounds," Distinguished Alumni Lecture, University of Toledo, Toledo, Ohio, May 31, 1995.

16. C. T. Eagle, "Studies to Predict the Catalytic Properties of Tetrakis(carboxamide)dirhodium(II) Compounds," University of Tennessee at Chattanooga, Chattanooga, Tennessee, September 22, 1995.

17. C. T. Eagle, "Studies to Predict the Catalytic Properties of Tetrakis(carboxamide)dirhodium(II) Compounds," University of North Carolina at Greensboro, Greensboro, NC September 29, 1995.

18. C. T. Eagle, "Historical Contributions of Women to Chemistry," Invited Lecture at Louisburg Junior College, Louisburg, NC, February, 1996.

19. C. T. Eagle, "Women in Chemistry, From Alchemy to the Nobel Prize," Invited Lecture for Women in Science Frazier Program, Guilford College, February, 1996.

20. C. T. Eagle, "I Will Bend Over Backwards for You: Evidence for the Existence of a π Backbond between Rhodium(II) Carboxylates and Carbenes," Department of Chemistry, Wake Forest University, Winston-Salem, NC, September 7, 1999.

21. C. T. Eagle, "Would you like some π ? Evidence for the existence of a π backbond between Rhodium(II)carboxylates and carbenes," Invited Seminar at East Carolina Univeristy, Greenville, NC, April 28, 2000.

22. C. T. Eagle "Does π Backbonding Exist between Rhodium(II) Carboxylates and Carbenes?" Invited seminar at Vanderbilt University, Nashville, TN, April 3, 2000.

23. C. T. Eagle, "Gertrude Elion: The Woman Who Cured Childhood Leukemia," Keynote Address (Invited Presentation) at the Westminster College Undergraduate Research Symposium, New Wilmington, PA, April 28, 2001.

24. C. T. Eagle, "Women in Chemistry: From Alchemy to the Nobel Prize," Invited seminar at Sweet Briar College Sweet Briar, VA, November 15, 2001.

25. C. T. Eagle, "Women in Chemistry: From Alchemy to the Nobel Prize," Invited seminar at Wagner College, Staten Island, NY, March 31, 2003.